Claims
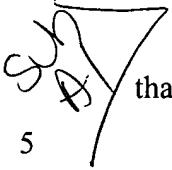
What is claimed is:

1.   A recognized word registration method, for a speech recognition apparatus that includes a display screen and a voice input device, comprising the steps of:

(a)   obtaining a word inscription specified by a user;

(b)   searching a word dictionary to obtain a sounds-like spelling corresponding to said word inscription;

(c)   searching a pronunciation dictionary to obtain a base form corresponding to said sounds-like spelling that has been obtained; and

(d)   registering said base form in a speech recognition dictionary.

2.   A recognized word registration method, for a speech recognition apparatus that includes a display screen and a voice input device, comprising the steps of:

(a)   obtaining a word inscription specified by a user;

(b)   searching a word dictionary to obtain a plurality of sounds-like spellings that correspond to said word inscription and sounds-like spelling scores that correspond to said sounds-like spellings;

(c)   displaying said plurality of sounds-like spellings for said user;

(d)   obtaining said sounds-like spelling that is selected by said user from among said plurality of sounds-like spellings;

(e)   searching a pronunciation dictionary to obtain a base form and a pronunciation score corresponding to said sounds-like spelling that has been obtained;

(f)   determining whether said pronunciation score exceeds a predetermined threshold value; and

(g)   registering said base form in a speech recognition dictionary when said pronunciation score exceeds said predetermined threshold value.

3. A recognized word registration method, for a speech recognition apparatus that includes a display screen and a voice input device, comprising the steps of:

(a) determining whether first voice information obtained for a user's voice matches a predetermined condition;

(b) displaying on said display screen, when said voice information matches said predetermined condition, a speech recognition wizard panel that includes a new word input field and a sounds-like spelling input field;

(c) obtaining a new word and a sounds-like spelling that are entered in said speech recognition wizard panel;

(d) obtaining second voice information based on said user's pronunciation provided for said new word and said sounds-like spelling;

(e) employing said second voice information, said new word and said sounds-like spelling to specifically describe a base form; and

(f) adding said base form to a speech recognition dictionary.

4. A recognized word registration method, for a speech recognition apparatus that includes a display screen and a voice input device, comprising:

an initial registration step, including

(a1) obtaining a word inscription specified by a user,

(a2) searching a word dictionary to obtain a plurality of sounds-like spellings that correspond to said word inscription and sounds-like spelling scores that correspond to said sounds-like spellings,

(a3) displaying said plurality of sounds-like spellings for said user,

(a4) obtaining said sounds-like spelling that is selected by said user from among said plurality of sounds-like spellings,

(a5) searching a pronunciation dictionary to obtain a base form and a pronunciation score corresponding to said sounds-like spelling that has been obtained,

(a6) determining whether said pronunciation score exceeds a predetermined threshold value, and

(a7) registering said base form in a speech recognition dictionary when said pronunciation score exceeds said predetermined threshold value; and

a registration step at the speech recognition time, including

(b1) determining whether first voice information obtained for a user's voice matches a predetermined condition,

(b2) displaying on said display screen, when said voice information matches said predetermined condition, a speech recognition wizard panel that includes a new word input field and a sounds-like spelling input field,

(b3) obtaining a new word and a sounds-like spelling that are entered in said speech recognition wizard panel,

(b4) obtaining second voice information based on said user's pronunciation provided for said new word and said sounds-like spelling,

(b5) employing said second voice information, said new word and said sounds-like spelling to specifically describe a second base form, and

(b6) adding said second base form to a speech recognition dictionary.

5. A speech recognition apparatus, which includes a display screen and a voice input device, comprising:

(a) a recognized word registration unit for obtaining a word inscription specified by a user;

(b) a sounds-like spelling generator for searching a word dictionary to obtain a sounds-like spelling corresponding to said word inscription;

(c) a base form generator for searching a pronunciation dictionary to obtain a base form corresponding to said sounds-like spelling that has been obtained; and

(d) a speech recognition dictionary in which said base form is registered.

6.   A speech recognition apparatus, which includes a display screen and a voice input device, comprising:

(a)   a recognized word registration unit for obtaining a word inscription specified by a user;

(b)   a sounds-like spelling generator for searching a word dictionary to obtain a plurality of sounds-like spellings that correspond to said word inscription and sounds-like spelling scores that correspond to said sounds-like spellings, and for obtaining said sounds-like spelling that is selected by said user from among said plurality of sounds-like spellings on said display screen;

(c)   a base form generator for searching a pronunciation dictionary to obtain a base form and a pronunciation score corresponding to said sounds-like spelling that has been obtained; and

(d)   a speech recognition dictionary in which said base form is registered when said pronunciation score exceeds a predetermined threshold value.

7.   A speech recognition apparatus, which includes a display screen and a voice input device, comprising:

(a)   a recognized word registration unit for determining whether first voice information obtained for a user's voice matches a predetermined condition;

(b)   a speech recognition wizard for displaying on said display screen, when said voice information matches said predetermined condition, a speech recognition wizard panel that includes a new word input field and a sounds-like spelling input field;

(c)   a voice input unit for obtaining second voice information based on said user's pronunciation provided for a new word and a sounds-like spelling that are entered in said speech recognition wizard panel;

(d)   a base form generator for employing said second voice information, said new word and said sounds-like spelling to specifically describe a base form; and

(e)   a speech recognition dictionary to which said base form is added.

8. A speech recognition apparatus comprising:

(a) a display screen;

(b) a voice input unit for entering voice information generated by a user's voice;

(c) a speech recognition engine for recognizing said voice information;

(d) a recognized word registration unit for obtaining a word inscription specified by a user;

(e) a sounds-like spelling generator for searching a word dictionary to obtain a plurality of sounds-like spellings that correspond to said word inscription and sounds-like spelling scores that correspond to said sounds-like spellings, and for, when one of said plurality of sounds-like spellings is selected by said user, obtaining said sounds-like spelling that is selected;

(f) a base form generator for searching a pronunciation dictionary to obtain a base form and a pronunciation score corresponding to said sounds-like spelling that has been obtained; and

(g) a speech recognition dictionary in which a base form is registered when said pronunciation score exceeds said predetermined threshold value,

(c2) wherein said speech recognition engine determines whether first voice information obtained for a user's voice matches a predetermined condition, and activates, when said voice information matches said predetermined condition, a speech recognition wizard panel that includes a new word input field and a sounds-like spelling input field,

(d2) wherein said sounds-like spelling generator obtains second voice information based on said user's pronunciation provided for a new word and a sounds-like spelling that are entered in said speech recognition wizard panel;

(e2) wherein said base form generator employs said second voice information, said new word and said sounds-like spelling to specifically describe a second base form; and

(f2)   wherein said second base form is stored in said speech recognition dictionary.

9.   A storage medium on which is stored a recognized word registration program that is to be executed by a speech recognition apparatus that includes a display screen and

5   a voice input device, said recognized word registration program comprising:

(a)   program code for instructing said speech recognition apparatus to obtain a word inscription specified by a user;

(b)   program code for instructing said speech recognition apparatus to search a word dictionary to obtain a sounds-like spelling corresponding to said word inscription;

10   (c)   program code for instructing said speech recognition apparatus to search a pronunciation dictionary to obtain a base form corresponding to said sounds-like spelling that has been obtained; and

(d)   program code for instructing said speech recognition apparatus to register said base form in a speech recognition dictionary.

15   10.   A storage medium on which is stored a recognized word registration program that is to be executed by a speech recognition apparatus that includes a display screen and a voice input device, said recognized word registration program comprising:

(a)   program code for instructing said speech recognition apparatus to obtain a word inscription specified by a user;

20   (b)   program code for instructing said speech recognition apparatus to search a word dictionary to obtain a plurality of sounds-like spellings that correspond to said word inscription and sounds-like spelling scores that correspond to said sounds-like spellings;

(c)   program code for instructing said speech recognition apparatus to display said plurality of sounds-like spellings for said user;

(d) program code for instructing said speech recognition apparatus to obtain said sounds-like spelling that is selected by said user from among said plurality of sounds-like spellings;

(e) program code for instructing said speech recognition apparatus to search a pronunciation dictionary to obtain a base form and a pronunciation score corresponding to said sounds-like spelling that has been obtained;

(f) program code for instructing said speech recognition apparatus to determine whether said pronunciation score exceeds a predetermined threshold value; and

(g) program code for instructing said speech recognition apparatus to register said base form in a speech recognition dictionary when said pronunciation score exceeds said predetermined threshold value.

11. A storage medium on which is stored a speech recognition process program that is to be executed by a speech recognition apparatus that includes a display screen and a voice input device, said speech recognition process program comprising:

(a) program code for instructing said speech recognition apparatus to determine whether first voice information obtained for a user's voice matches a predetermined condition;

(b) program code for instructing said speech recognition apparatus to display on said display screen, when said voice information matches said predetermined condition, a speech recognition wizard panel that includes a new word input field and a sounds-like spelling input field;

(c) program code for instructing said speech recognition apparatus to obtain a new word and a sounds-like spelling that are entered in said speech recognition wizard panel;

(d) program code for instructing said speech recognition apparatus to obtain second voice information based on said user's pronunciation provided for said new word and said sounds-like spelling;

(e)   program code for instructing said speech recognition apparatus to employ said second voice information, said new word and said sounds-like spelling to specifically describe a base form; and

(f)   program code for instructing said speech recognition apparatus to add said base form to a speech recognition dictionary.

12.   A storage medium on which is stored a speech recognition process program that is to be executed by a speech recognition apparatus that includes a display screen and a voice input device, said speech recognition process program comprising:

(a)   program code for instructing said speech recognition apparatus to obtain a word inscription specified by a user;

(b)   program code for instructing said speech recognition apparatus to search a word dictionary to obtain a plurality of sounds-like spellings that correspond to said word inscription and sounds-like spelling scores that correspond to said sounds-like spellings;

(c)   program code for instructing said speech recognition apparatus to display said plurality of sounds-like spellings for said user;

(d)   program code for instructing said speech recognition apparatus to obtain said sounds-like spelling that is selected by said user from among said plurality of sounds-like spellings;

(e)   program code for instructing said speech recognition apparatus to search a pronunciation dictionary to obtain a base form and a pronunciation score corresponding to said sounds-like spelling that has been obtained;

(f)   program code for instructing said speech recognition apparatus to determine whether said pronunciation score exceeds a predetermined threshold value;

(g)   program code for instructing said speech recognition apparatus to register said base form in a speech recognition dictionary when said pronunciation score exceeds said predetermined threshold value;

(h)   program code for instructing said speech recognition apparatus to determine whether first voice information obtained for a user's voice matches a predetermined condition;

(i)   program code for instructing said speech recognition apparatus to display on said display screen, when said voice information matches said predetermined condition, a speech recognition wizard panel that includes a new word input field and a sounds-like spelling input field;

(j)   program code for instructing said speech recognition apparatus to obtain a new word and a sounds-like spelling that are entered in said speech recognition wizard panel;

(k)   program code for instructing said speech recognition apparatus to obtain second voice information based on said user's pronunciation provided for said new word and said sounds-like spelling;

(l)   program code for instructing said speech recognition apparatus to employ said second voice information, said new word and said sounds-like spelling to specifically describe a second base form; and

(m)   program code for instructing said speech recognition apparatus to add said second base form to a speech recognition dictionary.